

### Additional file 3

**Effect of PS-F2 treatment on OVA-induced Th2 cytokine production.** Mice were immunized, treated, and challenged as described in Figure 1. On day 28, levels of Th2 cytokines in BALF were determined as described in Figure 5.

	IL-4 (pg/ml)	IL-5 (pg/ml)	IL-13 (pg/ml)
PBS	5.98 ± 0.74**	6.51 ± 1.04**	13.57 ± 8.82
OVA	227.28 ± 66.91	34.03 ± 6.93	39.35 ± 10.95
PS-F2	8.76 ± 2.61**	8.51 ± 1.32**	3.42 ± 3.43*

Data are reported as mean ± SEM ( $n = 10$ ). \* $P < 0.05$ , \*\*  $P < 0.01$  vs. OVA group in the same column.